

MORRIS COUNTY, NEW JERSEY  
COMPREHENSIVE HYDRIC SOILS LIST

All mapunits are displayed regardless of hydric status and are listed in alpha-numeric order by mapunit symbol. The "Hydric Soils Criteria" columns indicate the conditions that caused the mapunit component to be classified as "Hydric" or "Non-Hydric". These criteria are defined in "Hydric Soils of the United States" (USDA Miscellaneous Publication No. 1491, June, 1991 as revised in the Federal Register, Vol. 60, No. 37, February 24, 1995). See the "Criteria for Hydric Soils" endnote to determine the meaning of these columns. Spot symbols are footnoted at the end of the table.

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
Ad: ADRIAN MUCK-----	ADRIAN (C)	Yes	Bog	1,3	YES	NO	YES	3450
Am: ALLUVIAL LAND, WET----	ALLUVIAL LAND (C)	Yes	Flood Plain	2B3,3	YES	NO	YES	1900
AnB: ANNANDALE GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-----	ANNANDALE (C) COKESBURY (I)	No Yes	Depression	2B3	YES	NO	NO	5450
AnC: ANNANDALE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES-----	ANNANDALE (C)	No						1200
Ao: ALLUVIAL LAND-----	ALLUVIAL LAND (C) ALUVIAL LAND, WET (I)	No Yes	Flood Plain	2B1,2B2, 3	YES	NO	YES	3000

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COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
BaA: BARTLEY LOAM, 0 TO 3 PERCENT SLOPES-----	BARTLEY (C)	No	Depression	2B3	YES	NO	NO	680
	COKESBURY (I)	Yes						
BaB: BARTLEY LOAM, 3 TO 8 PERCENT SLOPES-----	BARTLEY (C)	No	Depression	2B3,3	YES	NO	YES	2800
	BARTLEY (C)	No						
BbC: BARTLEY GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES	BARTLEY (C)	No	Depression	2B3,3	YES	NO	YES	580
	BARTLEY (C)	No						
Bd: BIDDEFORD SILT LOAM---	BIDDEFORD (C)	Yes	Depression	2B3,3	YES	NO	YES	2950
	BIDDEFORD (C)	Yes						
BoB: BOONTON GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-	BOONTON (C)	No	Depression	2B3,3	YES	NO	YES	1100
	BOONTON (C)	No						
BoC: BOONTON GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES	BOONTON (C)	No	Depression	2B3,3	YES	NO	YES	1250
	BOONTON (C)	No						
BpC: BOONTON AND HALEDON EXTREMELY STONY SOILS, 8 TO 15 PERCENT SLOPES-----	BOONTON (C)	No	Depression	2B3,3	YES	NO	YES	325
	HALEDON (C)	No						325

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Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
CaA: CALIFON LOAM, 0 TO 3 PERCENT SLOPES-----	CALIFON (C) COKESBURY (I)	No Yes	Depression	2B3	YES	NO	NO	1300
CaB: CALIFON LOAM, 3 TO 8 PERCENT SLOPES-----	CALIFON (C)	No						4050
CaC: CALIFON LOAM, 8 TO 15 PERCENT SLOPES-----	CALIFON (C)	No						950
CbB: CALIFON GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-	CALIFON (C) COKESBURY (I)	No Yes	Depression	2B3	YES	NO	NO	1150
CcB: CALIFON VERY STONY LOAM, 2 TO 8 PERCENT SLOPES-----	CALIFON (C) COKESBURY (I)	No Yes	Depression	2B3	YES	NO	NO	3700
CcC: CALIFON VERY STONY LOAM, 8 TO 15 PERCENT SLOPES-----	CALIFON (C)	No						800

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Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
CdB: CALIFON LOAM, FRIABLE SUBSOIL VARIANT, 3 TO 8 PERCENT S LOPES-----	CALIFON VARIANT (C) COKESBURY (I)	No Yes	Depression	2B3	YES	NO	NO	1450
Cm: CARLISLE MUCK-----	CARLISLE (C)	Yes	Bog	1, 3	YES	NO	YES	7900
CoA: COKESBURY GRAVELLY LOAM, 0 TO 3 PERCENT SLOPES-----	COKESBURY (C)	Yes	Depression	2B3	YES	NO	NO	2150
CoB: COKESBURY GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-----	COKESBURY (C)	Yes	Depression	2B3	YES	NO	NO	1600
CsB: COKESBURY EXTREMELY STONY LOAM, 0 TO 8 PERCENT SLOPES-----	COKESBURY (C)	Yes	Depression	2B3	YES	NO	NO	6850
EdB: EDNEYVILLE GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-----	EDNEYVILLE (C)	No						9300

MORRIS COUNTY, NEW JERSEY  
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Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
EdC: EDNEYVILLE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES-----	EDNEYVILLE(C)	No						6550
Edd: EDNEYVILLE GRAVELLY LOAM, 15 TO 25 PERCENT SLOPES-----	EDNEYVILLE(C)	No						2400
ElB: ELLINGTON FINE SANDY LOAM, LOAMY SUBSOIL VARIANT, 3 TO 8 PERCENT SLOPES-----	ELLINGTON VARIANT (C) PREAKNESS VARIANT (I)	No Yes	Depression	2B3	YES	NO	NO	770
ElC: ELLINGTON FINE SANDY LOAM, LOAMY SUBSOIL VARIANT, 8 TO 15 PERCENT SLOPES-----	ELLINGTON VARIANT (C)	No						840
ElD: ELLINGTON FINE SANDY LOAM, LOAMY SUBSOIL VARIANT, 15 TO 25 PERCENT SLOPES-----	ELLINGTON VARIANT (C)	No						230

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COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
HaB: HALEDON SILT LOAM, 3 TO 8 PERCENT SLOPES---	HALEDON (C)	No						4450
HaC: HALEDON SILT LOAM, 8 TO 15 PERCENT SLOPES--	HALEDON (C)	No						780
HbC: HIBERNIA STONY LOAM, 3 TO 15 PERCENT SLOPES--	HIBERNIA (C)	No						9800
	RIDGEBURY (I)	Yes	Depression	2B3	YES	NO	NO	
HlD: HIBERNIA VERY STONY LOAM, 15 TO 25 PERCENT SLOPES-----	HIBERNIA (C)	No						600
HoC: HOLYOKE ROCKY SILT LOAM, 5 TO 15 PERCENT SLOPES-----	HOLYOKE (C)	No						760
HrE: HOLYOKE-ROCK OUTCROP COMPLEX, 15 TO 35 PERCENT SLOPES-----	HOLYOKE (C)	No						416
	ROCK OUTCROP (C)	No						314

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Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
KLE: KLINESVILLE SHALY SILT LOAM, 25 TO 35 PERCENT SLOPES-----	KLINESVILLE E (C)	No						260
Ma: MADE LAND, SANITARY LAND FILL-----	MADE LAND (C)	No						660
MLA: MINOA SILT LOAM, 0 TO 3 PERCENT SLOPES-----	MINOA (C)	No						280
	PARSIPPANY(I)	Yes	Depression	2B3	YES	NO	NO	
	PREAKNESS (I)	Yes	Depression	2B3	YES	NO	NO	
MLB: MINOA SILT LOAM, 3 TO 8 PERCENT SLOPES-----	MINOA (C)	No						840
Ms: MUCK, SHALLOW OVER CLAY-----	MUCK,SHALLOW OVER CL(C)	Yes	Bog	1, 3	YES	NO	YES	970
Mu: MUCK, SHALLOW OVER LOAM-----	MUCK,SHALLOW OVER LO(C)	Yes	Bog	1, 3	YES	NO	YES	960

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Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
NeB: NESHAMINY GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES-----	NESHAMINY (C)	No						950
NeC: NESHAMINY GRAVELLY SILT LOAM, 8 TO 15 PERCENT SLOPES-----	NESHAMINY (C)	No						1450
NfD: NESHAMINY VERY STONY SILT LOAM, 15 TO 25 PERCENT SLOPES-----	NESHAMINY (C)	No						390
NtB: NETCONG GRAVELLY SANDY LOAM, 3 TO 8 PERCENT SLOPES-----	NETCONG (C)	No						4350
NtC: NETCONG GRAVELLY SANDY LOAM, 8 TO 15 PERCENT SLOPES-----	NETCONG (C)	No						2750
OtC: OTISVILLE GRAVELLY LOAMY SAND, 3 TO 15 PERCENT SLOPES-----	OTISVILLE (C)	No						2650



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COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
OtD: OTISVILLE GRAVELLY LOAMY SAND, 15 TO 25 PERCENT SLOPES-----	OTISVILLE (C)	No						580
PaC: PARKER GRAVELLY SANDY LOAM, 3 TO 15 PERCENT SLOPES-----	PARKER (C)	No						9600
PbD: PARKER VERY GRAVELLY SANDY LOAM, 15 TO 25 SLOPES-----	PARKER (C)	No						2700
PeC: PARKER-EDNEYVILLE EXTREMELY STONY SANDY LOAMS, 3 TO 15 PERCENT SLOPES-----	PARKER (C) EDNEYVILLE(C)	No No						10478 6422
PeD: PARKER-EDNEYVILLE EXTREMELY STONY SANDY LOAMS, 15 TO 25 PERCENT SLOPES-----	PARKER (C) EDNEYVILLE(C)	No No						5332 3268

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Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
PfE: PARKER-ROCK OUTCROP COMPLEX, 20 TO 35 PERCENT SLOPES-----								
	PARKER (C)	No						5236
	ROCK OUTCROP (C)	No						1564
Ph: PARSIPPANY SILT LOAM--								
	PARSIPPANY(C)	Yes	Depression	2B3	YES	NO	NO	2500
Pk: PARSIPPANY SILT LOAM, SANDY LOAM SUBSTRATUM--								
	PARSIPPANY(C)	Yes	Depression	2B3	YES	NO	NO	8050
PlB: PATTENBURG GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-----								
	PATTENBURG(C)	No						450
PlC: PATTENBURG GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES-----								
	PATTENBURG(C)	No						340
PnB: PENN SHALY SILT LOAM, 3 TO 8 PERCENT SLOPES--								
	PENN (C)	No						2000
PnC: PENN SHALY SILT LOAM, 8 TO 15 PERCENT SLOPES								
	PENN (C)	No						1250

MORRIS COUNTY, NEW JERSEY  
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
PoD: PENN-KLINESVILLE SHALY SILT LOAMS, 15 TO 25 PERCENT SLO PES-----								
	PENN (C)	No						267
	KLINESVILL E (C)	No						163
Ps: PITS, SAND AND GRAVEL-								
	PITS (C)	No						1370
PtA: POMPTON SANDY LOAM, 0 TO 3 PERCENT SLOPES---								
	POMPTON (C)	No						530
	PREAKNESS (I)	Yes	Depression	2B3	YES	NO	NO	
PtB: POMPTON SANDY LOAM, 3 TO 8 PERCENT SLOPES---								
	POMPTON (C)	No						3600
PvA: PREAKNESS SANDY LOAM, 0 TO 4 PERCENT SLOPES-								
	PREAKNESS (C)	Yes	Outwash Plain	2B3	YES	NO	NO	3400
Pw: PREAKNESS SANDY LOAM, DARK SURFACE VARIANT--								
	PREAKNESS VARIANT (C)	Yes	Depression	2B3,3	YES	NO	YES	1200
QU: QUARRY-----								
	QUARRY (C)	No						65

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Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
ReB: REAVILLE SHALY SILT LOAM, DEEP VARIANT, 0 TO 5 PERCENT SLOPES----	REAVILLE VARIANT (C)	No						780
RgA: RIDGEBURY VERY STONY LOAM, 0 TO 3 PERCENT SLOPES-----	RIDGEBURY (C)	Yes	Depression	2B3	YES	NO	NO	2250
RIb: RIDGEBURY EXTREMELY STONY LOAM, 3 TO 10 PERCENT SLOPES-----	RIDGEBURY (C)	Yes	Depression	2B3	YES	NO	NO	3900
RmA: RIVERHEAD GRAVELLY SANDY LOAM, 0 TO 3 PERCENT SLOPES-----	RIVERHEAD (C)	No						270
RmB: RIVERHEAD GRAVELLY SANDY LOAM, 3 TO 8 PERCENT SLOPES-----	RIVERHEAD (C)	No						4600
RmC: RIVERHEAD GRAVELLY SANDY LOAM, 8 TO 15 PERCENT SLOPES-----	RIVERHEAD (C)	No						2050

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Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
RnB: RIVERHEAD GRAVELLY SANDY LOAM, NEUTRAL VARIANT, 2 TO 8 PERCENT SLOPES-----	RIVERHEAD VARIANT (C)	No						1150
RoB: ROCKAWAY GRAVELLY SANDY LOAM, 3 TO 8 PERCENT SLOPES-----	ROCKAWAY (C)	No						2150
RoC: ROCKAWAY GRAVELLY SANDY LOAM, 8 TO 15 PERCENT SLOPES-----	ROCKAWAY (C)	No						1150
RpC: ROCKAWAY VERY STONY SANDY LOAM, 3 TO 15 PERCENT SLOPES-----	ROCKAWAY (C)	No						24270
RrD: ROCKAWAY EXTREMELY STONY SANDY LOAM, 15 TO 25 PERCENT S LOPES-	ROCKAWAY (C)	No						10600
RsC: ROCKAWAY-ROCK OUTCROP COMPLEX, 3 TO 15 PERCENT SLOPES-----	ROCKAWAY (C)	No						4495
	ROCK OUTCROP (C)	No						2755

MORRIS COUNTY, NEW JERSEY  
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
RSD: ROCKAWAY-ROCK OUTCROP COMPLEX, 15 TO 25 PERCENT SLOPES-----								
	ROCKAWAY (C)	No						4543
	ROCK OUTCROP (C)	No						1357
RsE: ROCKAWAY-ROCK OUTCROP COMPLEX, 25 TO 45 PERCENT SLOPES-----								
	ROCKAWAY (C)	No						1890
	ROCK OUTCROP (C)	No						810
Rt: ROCK OUTCROP-----								
	ROCK OUTCROP (C)	No						500
RvF: ROCK OUTCROP-ROCKAWAY COMPLEX, STEEP-----								
	ROCK OUTCROP (C)	No						5460
	ROCKAWAY (C)	No						2340
TuA: TURBOTVILLE LOAM, 0 TO 3 PERCENT SLOPES-----								
	TURBOTVILL E (C)	No						1400
	COKESBURY (I)	Yes	Depression	2B3	YES	NO	NO	
TuB: TURBOTVILLE LOAM, 3 TO 8 PERCENT SLOPES-----								
	TURBOTVILL E (C)	No						2650

MORRIS COUNTY, NEW JERSEY  
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C) / Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
Ua: URBAN LAND-----	URBAN LAND(C)	No						6200
Ub: URBAN LAND, WET-----	URBAN LAND(C)	No						480
Ue: URBAN LAND-EDNEYVILLE COMPLEX-----	URBAN LAND(C) EDNEYVILLE(C)	No No						797 652
Uh: URBAN LAND-HALEDON COMPLEX-----	URBAN LAND(C) HALEDON (C)	No No						1400 1400
Uk: URBAN LAND-NESHAMINY COMPLEX-----	URBAN LAND(C) NESHAMINY (C)	No No						275 275
Um: URBAN LAND-PENN COMPLEX-----	URBAN LAND(C) PENN (C)	No No						359 271
Un: URBAN LAND-PREAKNESS COMPLEX-----	URBAN LAND(C) PREAKNESS (C)	No Yes	Outwash Plain	2B3	YES	NO	NO	291 238

MORRIS COUNTY, NEW JERSEY  
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
Up: URBAN LAND-RIVERHEAD COMPLEX-----	URBAN LAND(C) RIVERHEAD (C)	No No						5952 3648
UrC: URBAN LAND-ROCKAWAY COMPLEX, GENTLY SLOPING AND SLOPING---	URBAN LAND(C) ROCKAWAY (C)	No No						4675 3825
UrD: URBAN LAND-ROCKAWAY COMPLEX, MODERATELY STEEP-----	URBAN LAND(C) ROCKAWAY (C)	No No						357 292
Uw: URBAN LAND-WHIPpany COMPLEX-----	URBAN LAND(C) WHIPPANY (C)	No No						485 485
W: WATER (LESS THAN 40 ACRES)-----	ERROR: There is no hydcomp record for component NJ027 027W 1							
WATER: WATER (GREATER THAN 40 ACRES)-----	ERROR: There is no hydcomp record for component NJ027 027WATER 1							
WaB: WASHINGTON LOAM, 0 TO 8 PERCENT SLOPES-----	WASHINGTON(C)	No						1150



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Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
WhA: WHIPPANY SILT LOAM, 0 TO 3 PERCENT SLOPES---	WHIPPANY (C) PARSIPPANY(I)	No Yes	Depression	2B3	YES	NO	NO	550
WhB: WHIPPANY SILT LOAM, 3 TO 8 PERCENT SLOPES---	WHIPPANY (C)	No						1100
WlA: WHIPPANY SILT LOAM, SANDY LOAM SUBSTRATUM, 0 TO 3 PERCENT SLOPES	WHIPPANY (C) PARSIPPANY(I)	No Yes	Depression	2B3	YES	NO	NO	400
WlB: WHIPPANY SILT LOAM, SANDY LOAM SUBSTRATUM, 3 TO 8 PERCENT SLOPES	WHIPPANY (C)	No						1000
Wm: WHITMAN VERY STONY LOAM-----	WHITMAN (C)	Yes	Depression	2B3,3	YES	NO	YES	930

FOOTNOTE: There may be small areas of included soils or miscellaneous areas that are significant to use and management of the soil; yet are too small to delineate on the soil map at the map's original scale. These may be designated as spot symbols and are defined in the published Soil Survey Report or the USDA-NRCS Technical Guide, Part II.

HYDRIC SOILS CRITERIA CODES AND DEFINITIONS

1. All Histosols, except Folists, or
  2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Aquisalids, Pachic subgroups, or Cumulic subgroups that are:
    - a. Somewhat poorly drained with a water table equal to 0.0 foot (ft) from the surface during the growing season, or
    - b. Poorly drained or very poorly drained and have either:
      - (1) water table equal to 0.0 ft during the growing season if textures are coarse sand, sand, or fine sand in all layers within 20 inches (in), or for other soils
      - (2) water table at less than or equal to 0.5 ft from the surface during the growing season if permeability is equal to or greater than 6.0 in/hour (h) in all layers within 20 in, or
      - (3) water table at less than or equal to 1.0 ft from the surface during the growing season if permeability is less than 6.0 in/h in any layer within 20 in, or
  3. Soils that are frequently ponded for long duration or very long duration during the growing season, or
  4. Soils that are frequently flooded for long duration or very long duration during the growing season.
- .